

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062818\
 Data File : VU025018.D
 Acq On : 28 Jun 2018 14:16
 Operator : MD/SY
 Sample : J3671-14ME
 Misc : 5.62g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB481-9-11-180621ME

Manual Integrations
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 6/29/2018 4:23:34 PM

Quant Time: Jun 29 06:04:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	225609	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	344986	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.10	117	348583	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	268176	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	172480	46.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.66%	
35) Dibromofluoromethane	4.89	113	132124	46.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.30%	
50) Toluene-d8	7.57	98	517599	49.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.12%	
62) 4-Bromofluorobenzene	10.32	95	276789	66.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	133.50%	
Target Compounds						
						Qvalue
39) Methylcyclohexane	6.41	83	9425	1.86	ug/l	94
65) Chlorobenzene	9.13	112	1775387	199.37	ug/l	99
67) Ethyl Benzene	9.26	91	39080	2.50	ug/l	100
68) m/p-Xylenes	9.38	106	7307	1.22	ug/l	95
69) o-Xylene	9.79	106	17986	3.03	ug/l	98
73) Isopropylbenzene	10.17	105	102532	4.98	ug/l	100
78) n-propylbenzene	10.60	91	405932	16.74	ug/l	97
80) 1,3,5-Trimethylbenzene	10.78	105	481605	26.99	ug/l	100
83) tert-Butylbenzene	11.11	119	344167	20.05	ug/l	93
84) 1,2,4-Trimethylbenzene	11.16	105	1254598	68.99	ug/l	100
85) sec-Butylbenzene	11.34	105	977345	45.48	ug/l	96
86) p-Isopropyltoluene	11.48	119	447332	23.24	ug/l	98
87) 1,3-Dichlorobenzene	11.43	146	154532m	16.05	ug/l	
88) 1,4-Dichlorobenzene	11.52	146	2288403	236.09	ug/l	98
89) n-Butylbenzene	11.90	91	1971537	115.39	ug/l #	46
91) 1,2-Dichlorobenzene	11.89	146	2581710	267.65	ug/l	98
93) 1,2,4-Trichlorobenzene	13.51	180	118831	19.95	ug/l #	86
95) Naphthalene	13.75	128	4237945	212.68	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	23820	4.01	ug/l #	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

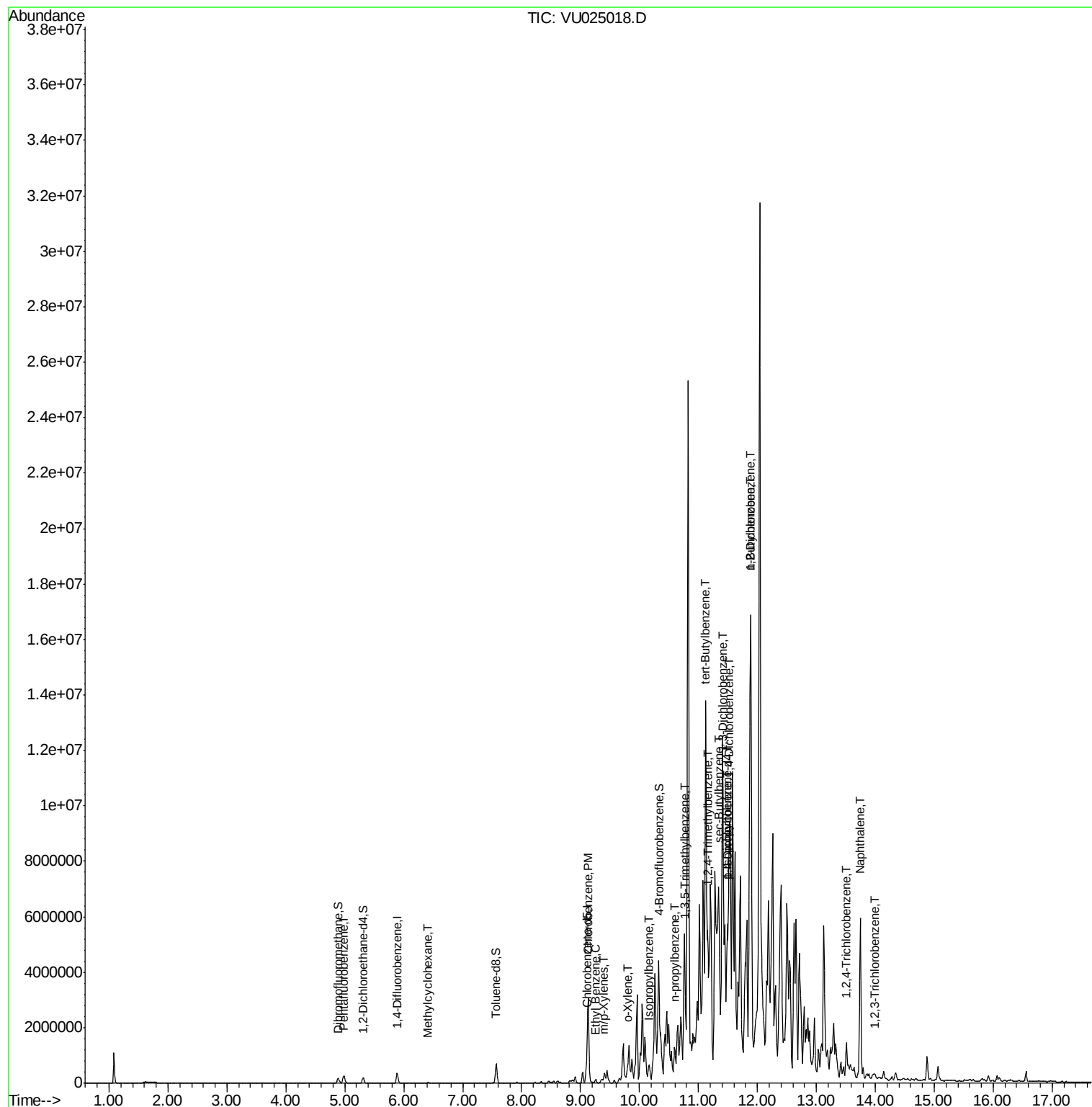
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU062818\
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WP021SB481-9-11-180621ME

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Quant Time: Jun 29 06:04:06 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VU025018.D

Acq: 28 Jun 2018 14:16

Instrument :

MSVOA_U

ClientSampleId :

WP021SB481-9-11-180621ME

Tot Ion:168 Resp: 225609

Ion Ratio Lower Upper

168 100

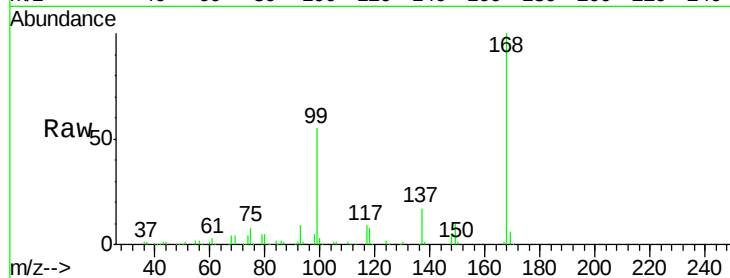
99 55.1 43.2 64.8

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Abundance Ion 167.90 (167.60 to 168.60): VU025018.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU025018.D (-1275) (-)

4.98

100000

80000

60000

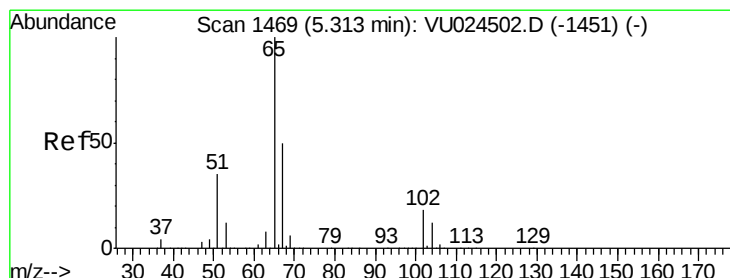
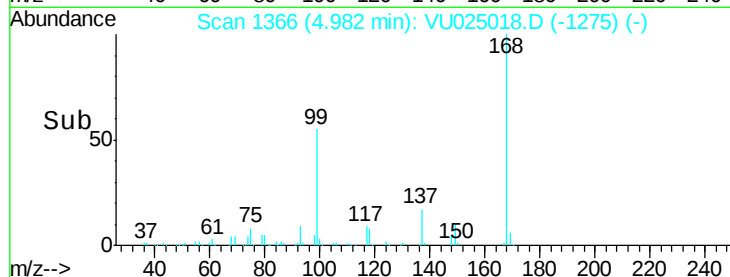
40000

20000

0

4.90 5.00 5.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 46.83 ug/l

RT: 5.31 min Scan# 1468

Delta R.T. -0.00 min

Lab File: VU025018.D

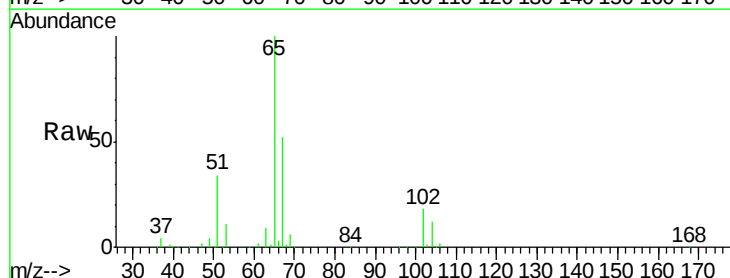
Acq: 28 Jun 2018 14:16

Tgt Ion: 65 Resp: 172480

Ion Ratio Lower Upper

65 100

67 52.2 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU025018.D (-1376) (-)

Ion 66.90 (66.60 to 67.60): VU025018.D (-1376) (-)

5.31

80000

60000

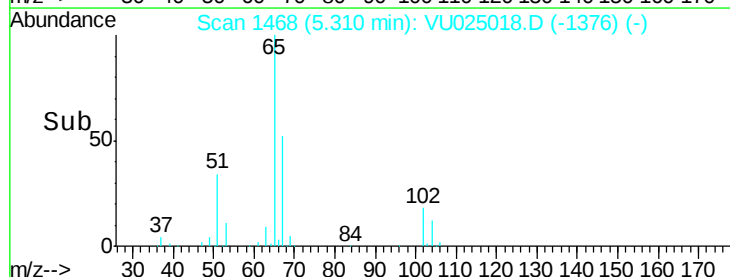
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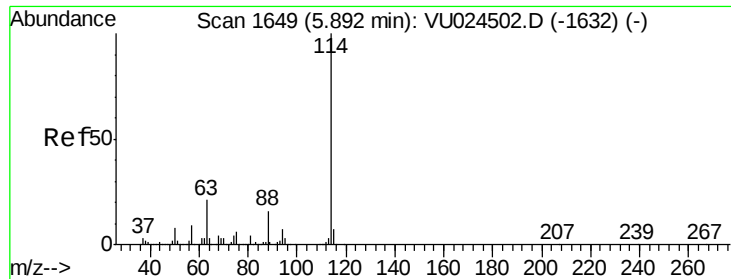
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0

5.20 5.30 5.40

Time-->





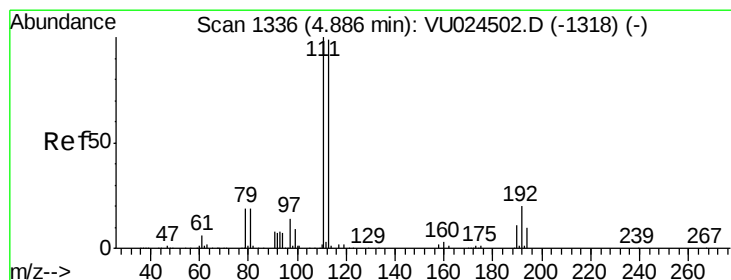
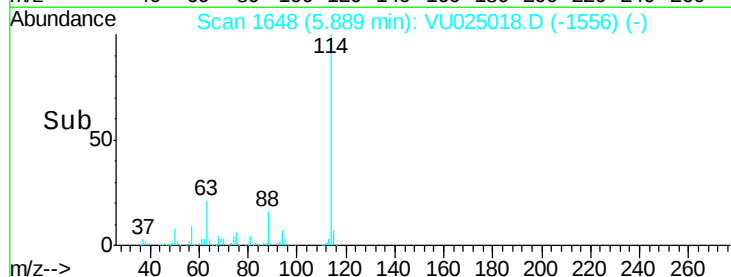
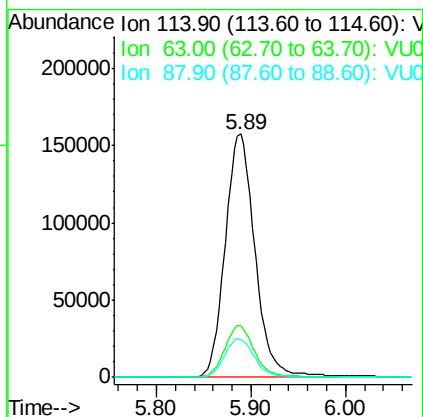
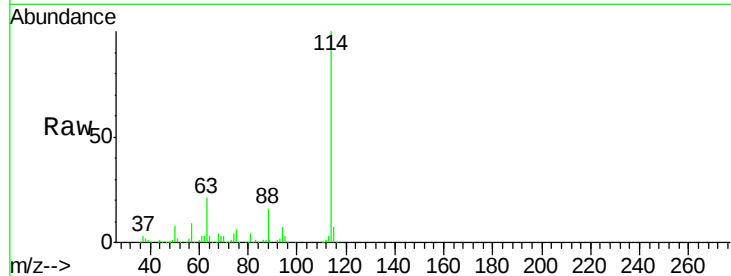
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU025018.D
 Acq: 28 Jun 2018 14:16

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB481-9-11-180621ME

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	21.2	0.0	45.4
88	15.6	0.0	31.0

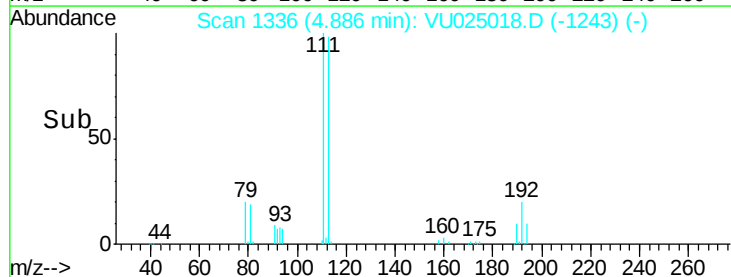
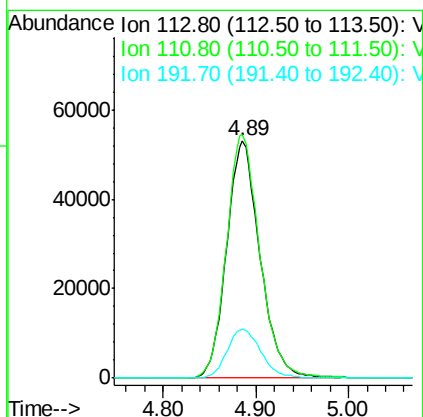
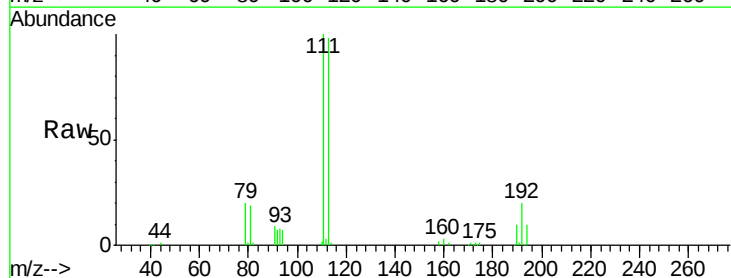
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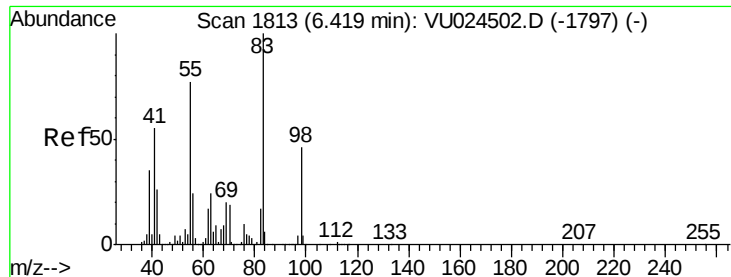
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#35
 Dibromofluoromethane
 Concen: 46.15 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU025018.D
 Acq: 28 Jun 2018 14:16

Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	103.3	82.2	123.4
192	20.9	16.2	24.4





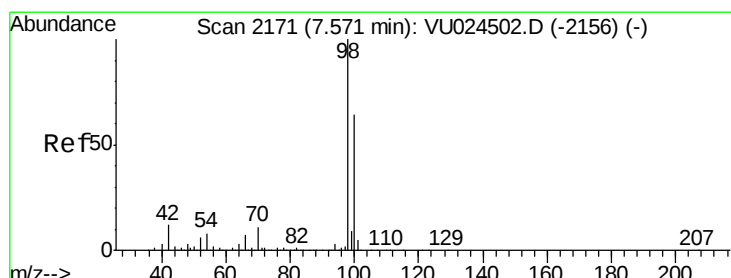
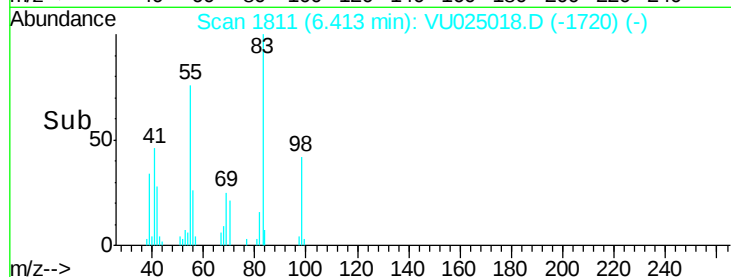
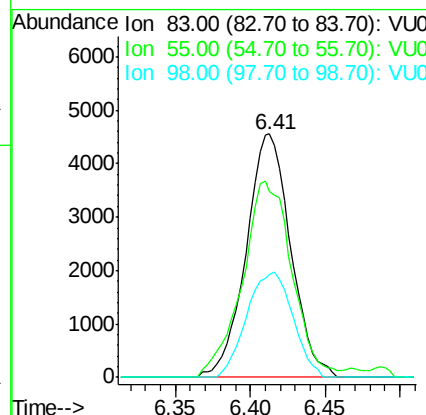
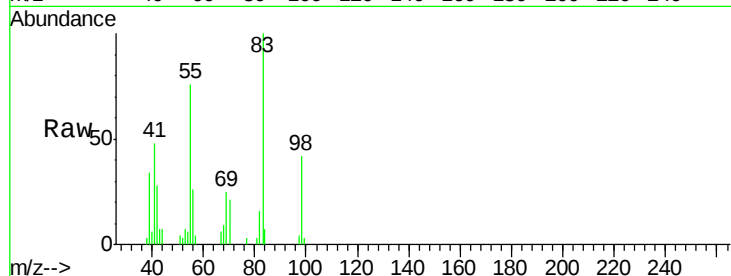
#39
Methvlcvclohexane
Concen: 1.86 ug/l
RT: 6.41 min Scan# 1811
Delta R.T. -0.01 min
Lab File: VU025018.D
Acq: 28 Jun 2018 14:16

Instrument :
MSVOA_U
ClientSampleId :
WP021SB481-9-11-180621ME

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.2	65.8	98.6
98	42.0	36.7	55.1

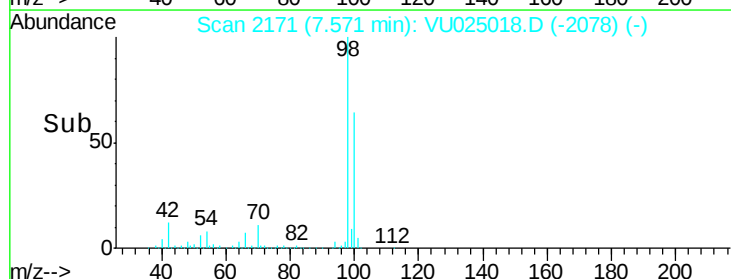
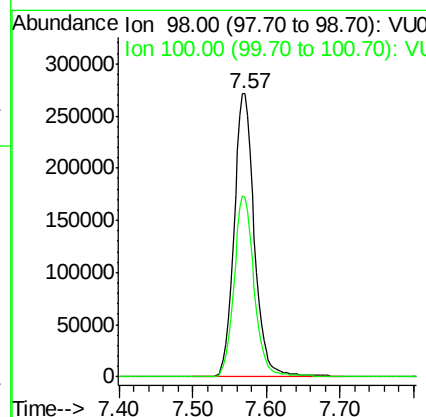
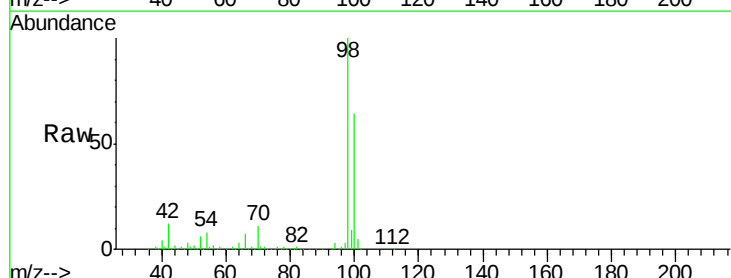
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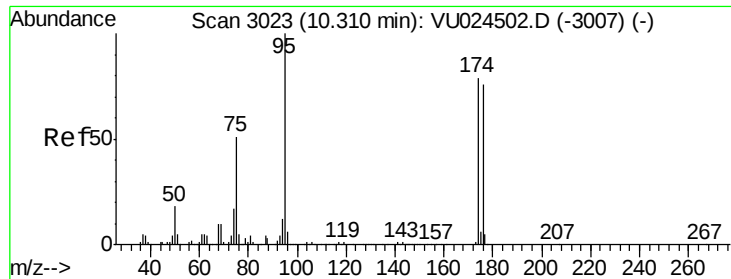
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#50
Toluene-d8
Concen: 49.56 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU025018.D
Acq: 28 Jun 2018 14:16

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.1	76.7





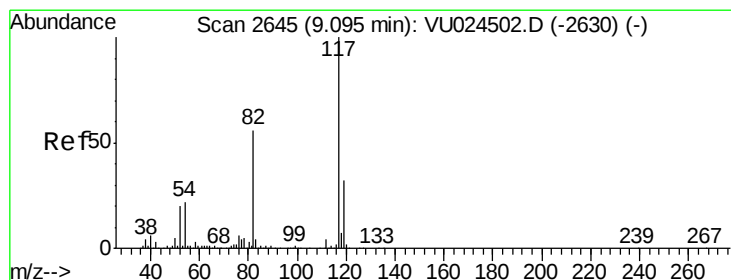
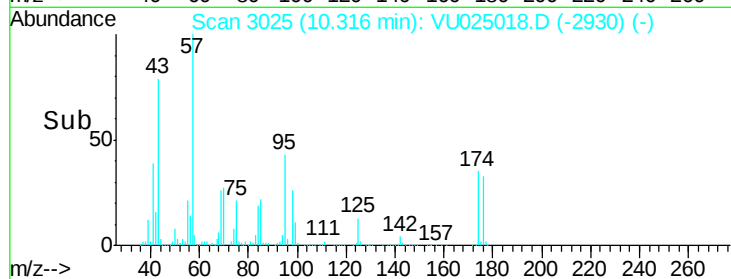
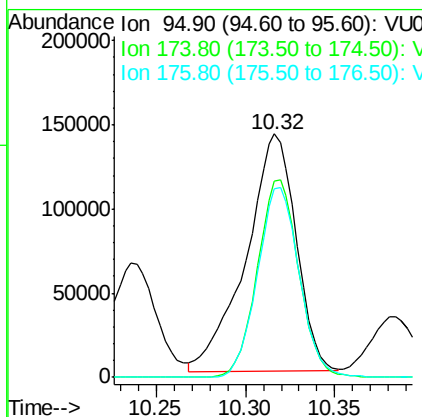
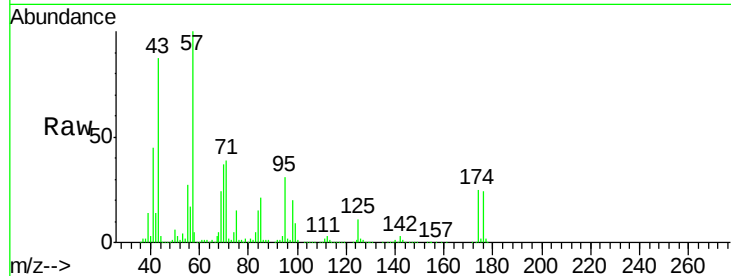
#62
4-Bromofluorobenzene
Concen: 66.75 ug/l
RT: 10.32 min Scan# 3025
Delta R.T. 0.01 min
Lab File: VU025018.D
Acq: 28 Jun 2018 14:16

Instrument :
MSVOA_U
ClientSampleId :
WP021SB481-9-11-180621ME

Tot Ion	Ratio	Resp	Lower	Upper
95	100	276789		
174	68.8	0.0	165.8	
176	66.9	0.0	159.4	

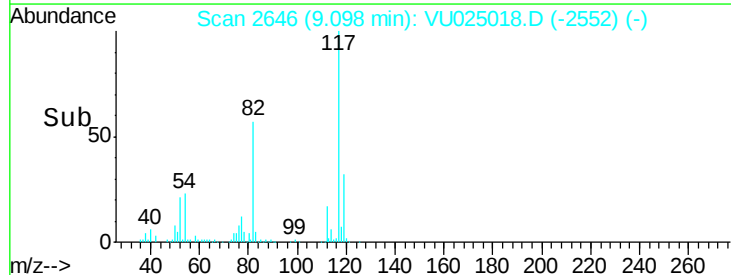
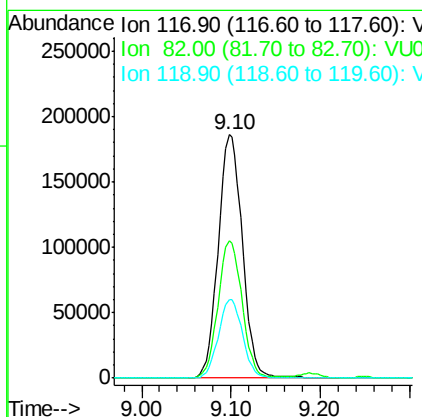
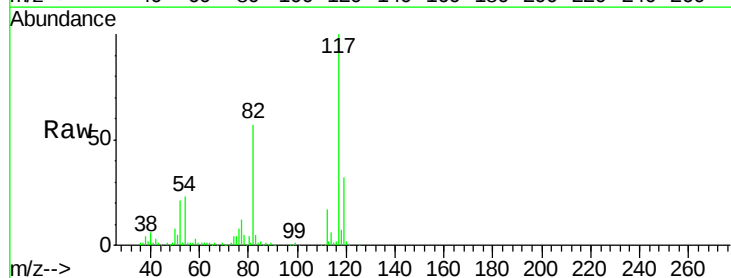
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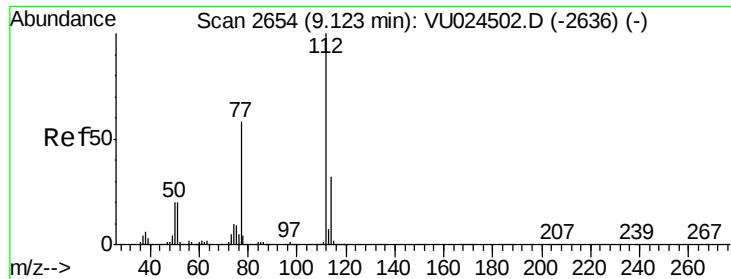
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#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.10 min Scan# 2646
Delta R.T. 0.00 min
Lab File: VU025018.D
Acq: 28 Jun 2018 14:16

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	348583		
82	56.4	44.3	66.5	
119	32.1	25.4	38.2	





#65

Chlorobenzene

Concen: 199.37 ug/l

RT: 9.13 min Scan# 2655

Delta R.T. 0.00 min

Lab File: VU025018.D

Acq: 28 Jun 2018 14:16

Instrument :

MSVOA_U

ClientSampleId :

WP021SB481-9-11-180621ME

Tot Ion:112 Resp: 1775387

Ion Ratio Lower Upper

112 100

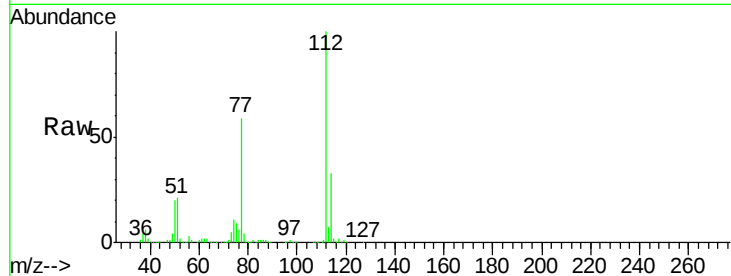
114 32.8 25.6 38.4

Manual Integrations

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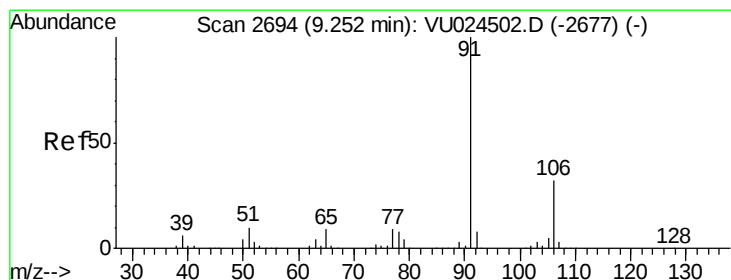
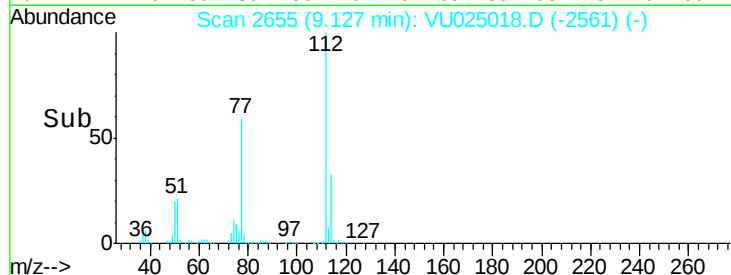
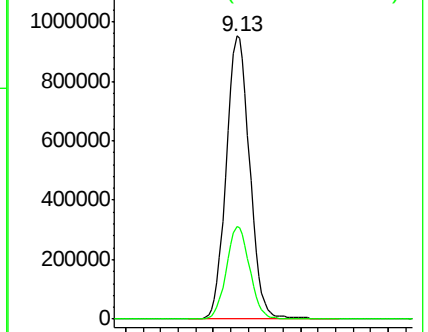
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#67

Ethyl Benzene

Concen: 2.50 ug/l

RT: 9.26 min Scan# 2696

Delta R.T. 0.01 min

Lab File: VU025018.D

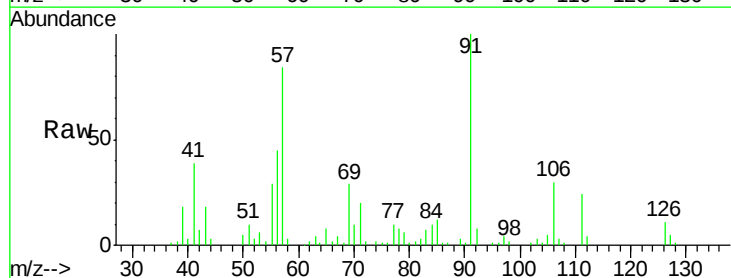
Acq: 28 Jun 2018 14:16

Tgt Ion: 91 Resp: 39080

Ion Ratio Lower Upper

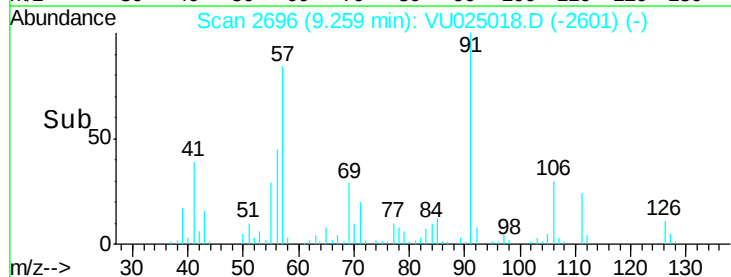
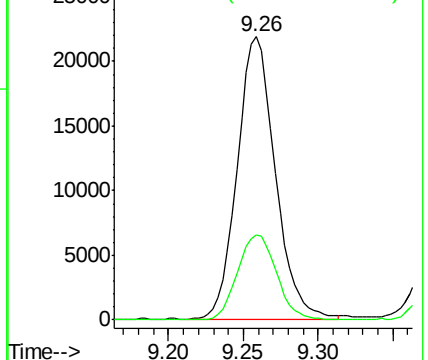
91 100

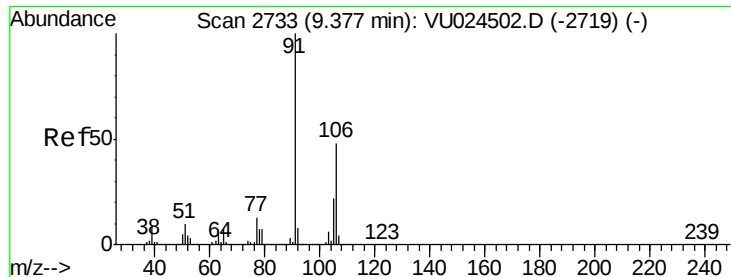
106 30.0 24.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 1.22 ug/l

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU025018.D

Acq: 28 Jun 2018 14:16

Instrument :

MSVOA_U

ClientSampleId :

WP021SB481-9-11-180621ME

Tot Ion:106 Resp: 7307

Ion Ratio Lower Upper

106 100

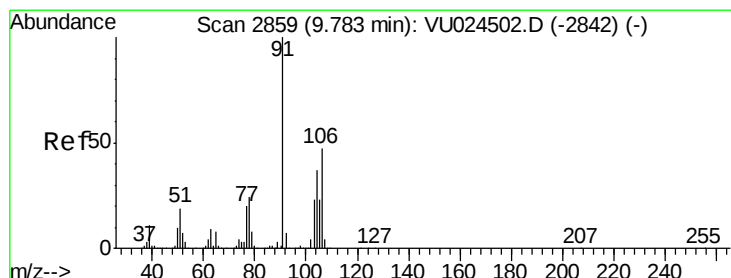
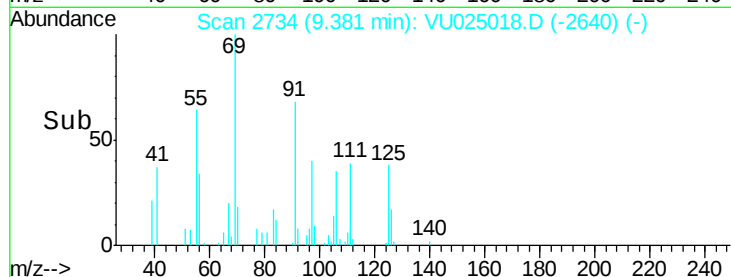
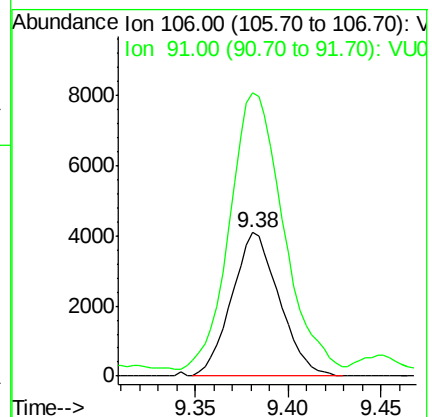
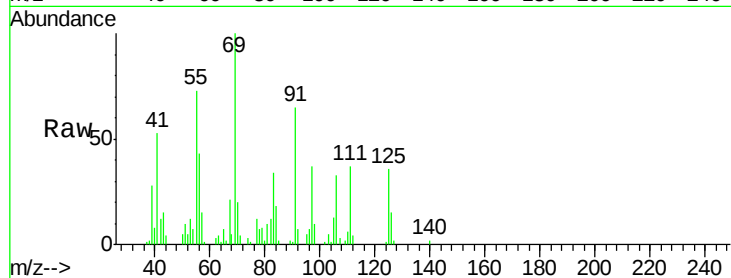
91 216.4 166.5 249.7

Manual Integrations

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#69

o-Xylene

Concen: 3.03 ug/l

RT: 9.79 min Scan# 2861

Delta R.T. 0.01 min

Lab File: VU025018.D

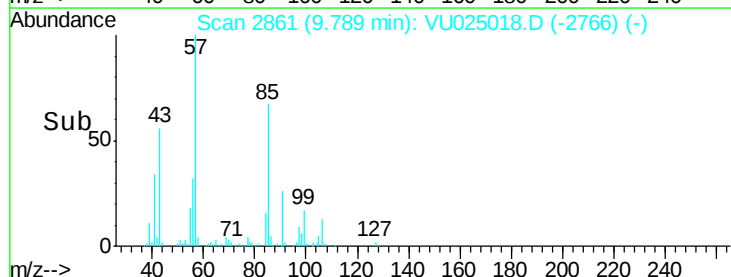
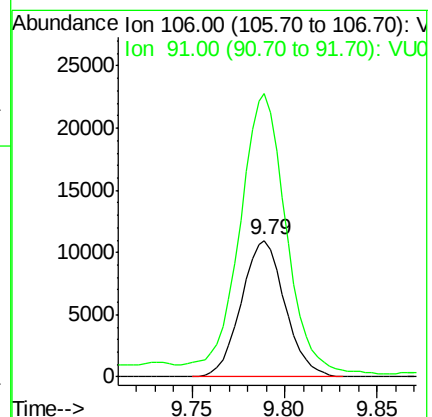
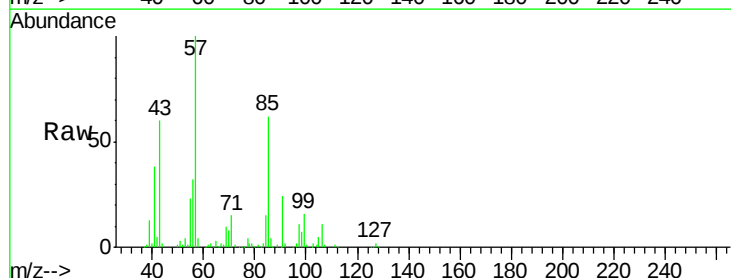
Acq: 28 Jun 2018 14:16

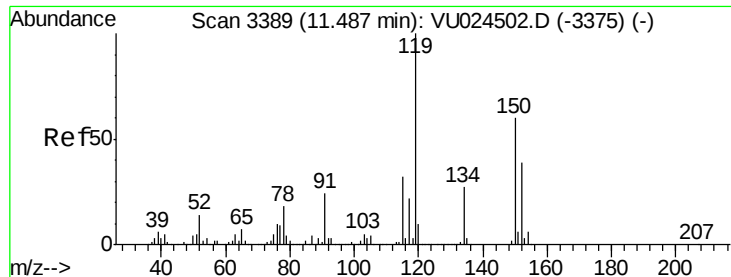
Tgt Ion:106 Resp: 17986

Ion Ratio Lower Upper

106 100

91 218.8 110.7 331.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3391

Delta R.T. 0.01 min

Lab File: VU025018.D

Acq: 28 Jun 2018 14:16

Instrument :

MSVOA_U

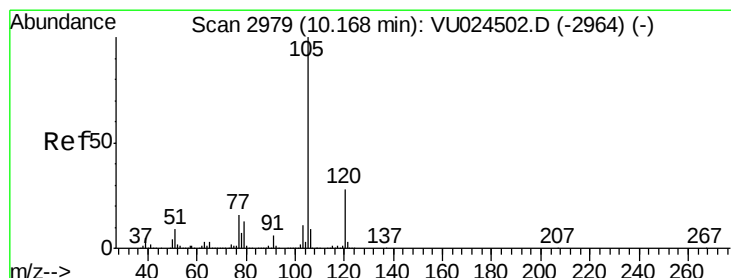
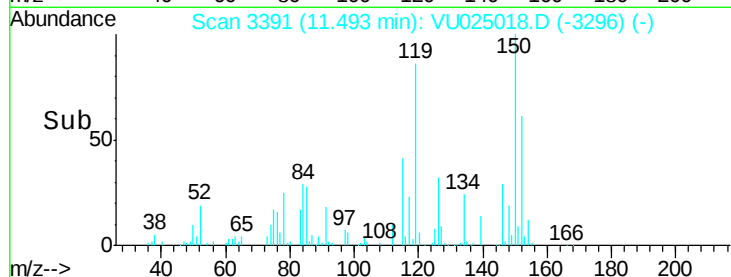
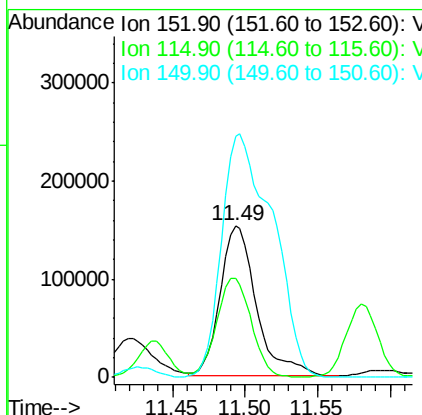
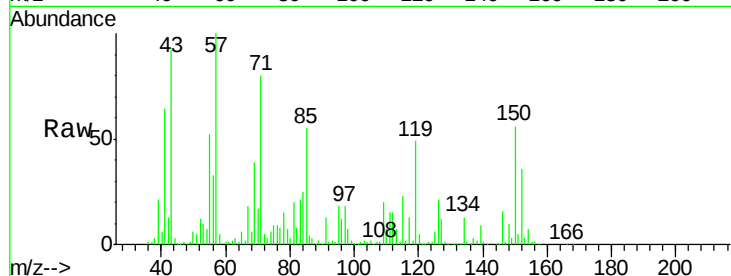
ClientSampleId :

WP021SB481-9-11-180621ME

Tot Ion	Ratio	Lower	Upper
152	100		
115	62.0	43.0	129.0
150	225.9	0.0	354.0

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#73

Isopropylbenzene

Concen: 4.98 ug/l

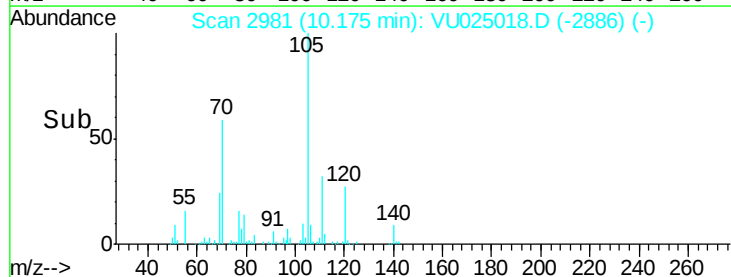
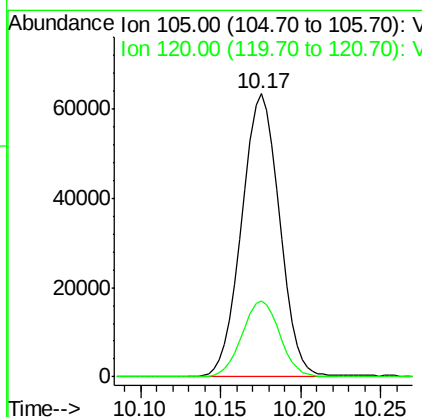
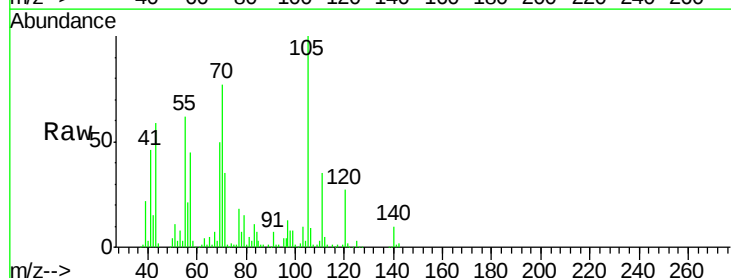
RT: 10.17 min Scan# 2981

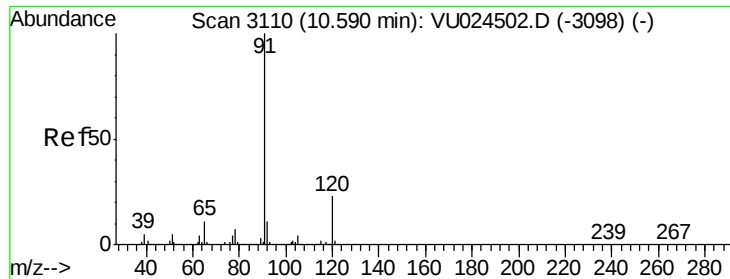
Delta R.T. 0.01 min

Lab File: VU025018.D

Acq: 28 Jun 2018 14:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.2	39.6





#78

n-propylbenzene

Concen: 16.74 ug/l

RT: 10.60 min Scan# 3112

Delta R.T. 0.01 min

Lab File: VU025018.D

Acq: 28 Jun 2018 14:16

Instrument :

MSVOA_U

ClientSampleId :

WP021SB481-9-11-180621ME

Tot Ion: 91 Resp: 405932

Ion Ratio Lower Upper

91 100

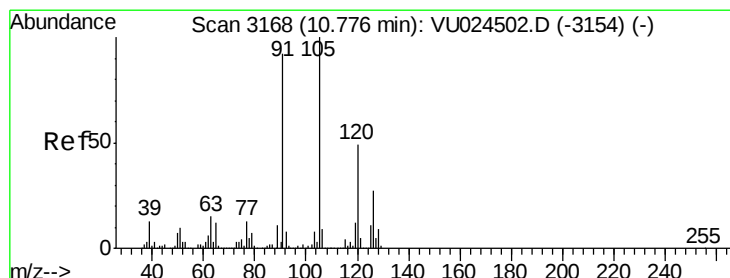
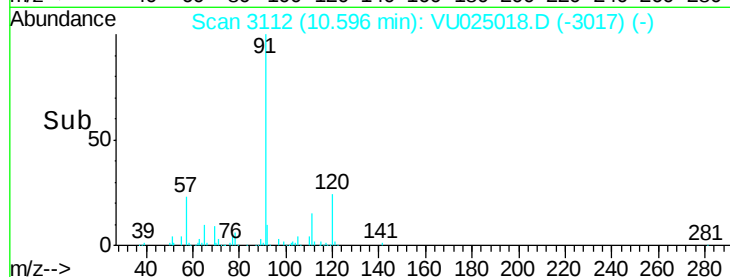
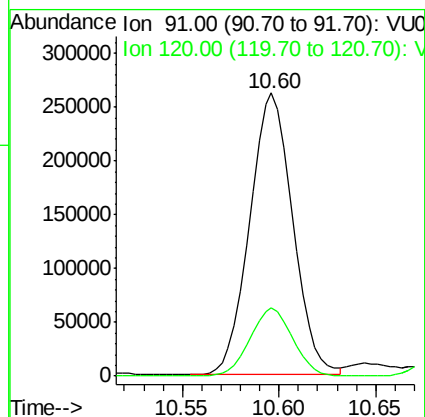
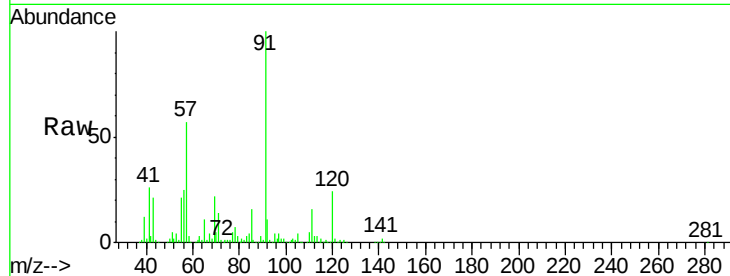
120 23.9 11.2 33.5

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#80

1,3,5-Trimethylbenzene

Concen: 26.99 ug/l

RT: 10.78 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VU025018.D

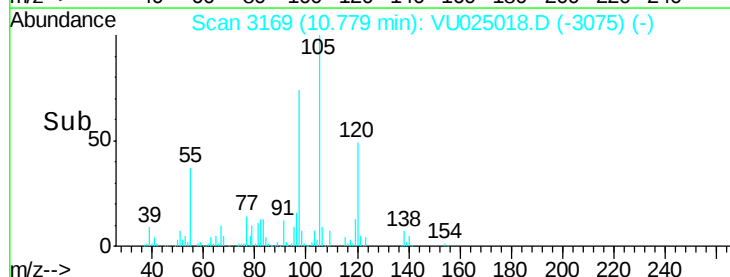
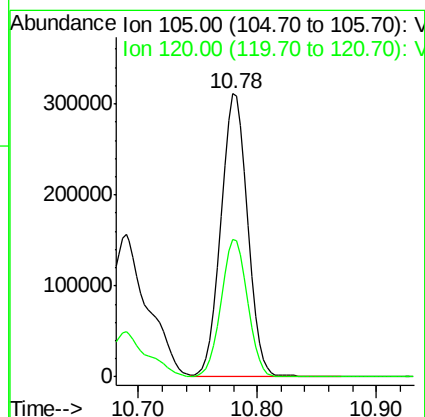
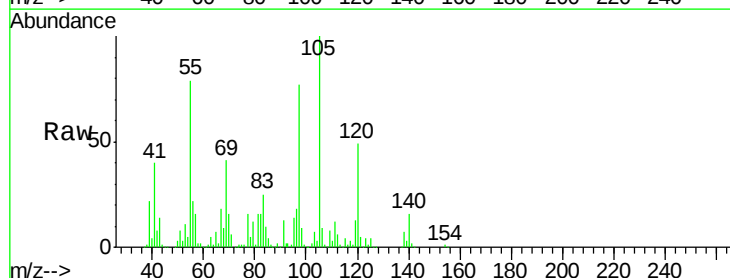
Acq: 28 Jun 2018 14:16

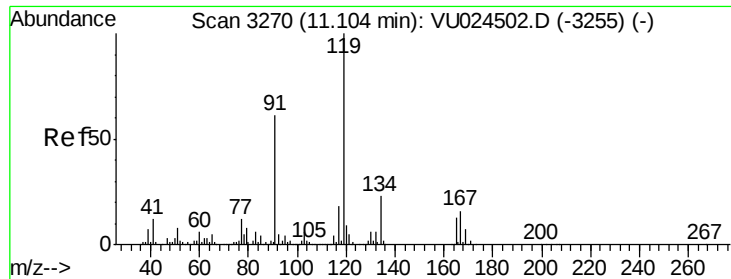
Tgt Ion: 105 Resp: 481605

Ion Ratio Lower Upper

105 100

120 48.3 24.1 72.2





#83

tert-Butylbenzene

Concen: 20.05 ug/l

RT: 11.11 min Scan# 3272

Delta R.T. 0.01 min

Lab File: VU025018.D

Acq: 28 Jun 2018 14:16

Instrument :

MSVOA_U

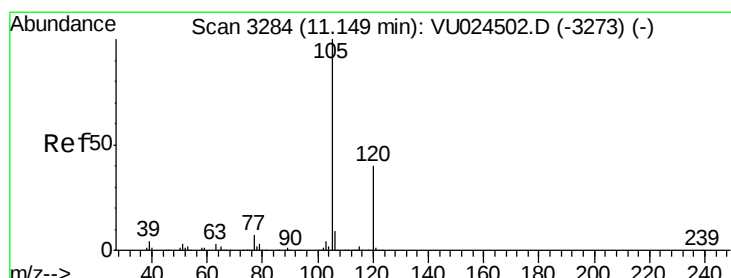
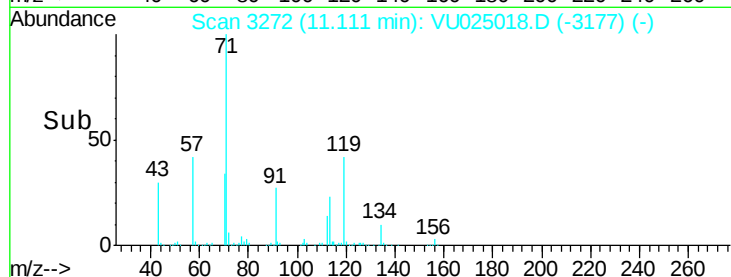
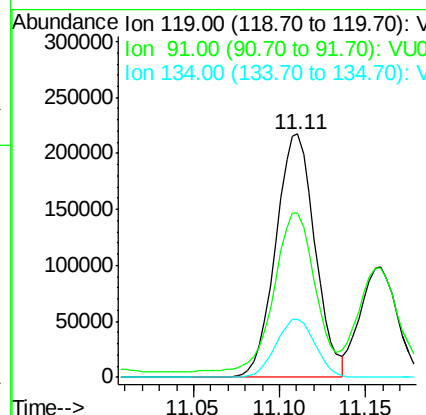
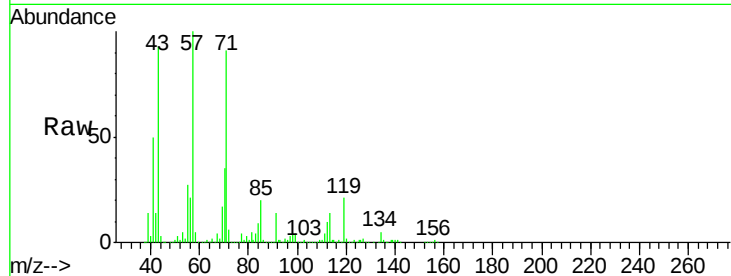
ClientSampleId :

WP021SB481-9-11-180621ME

Tot Ion:	119	Resp:	344167
Ion Ratio	Lower	Upper	
119	100		
91	65.9	29.7	89.1
134	24.1	11.6	34.7

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#84

1,2,4-Trimethylbenzene

Concen: 68.99 ug/l

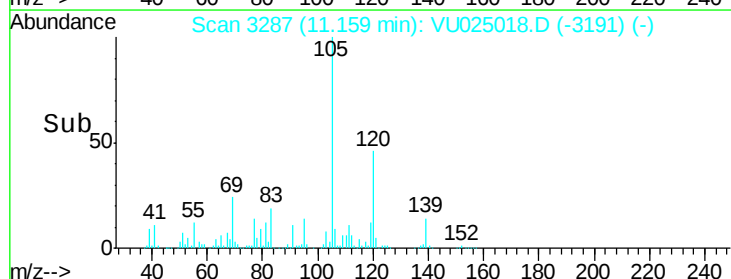
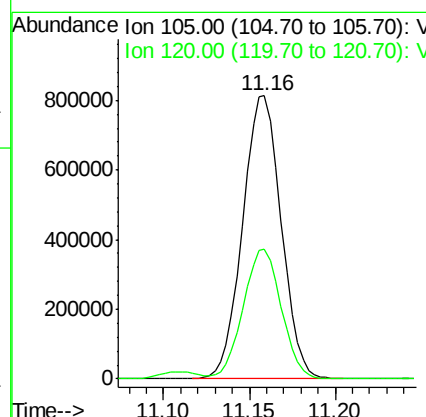
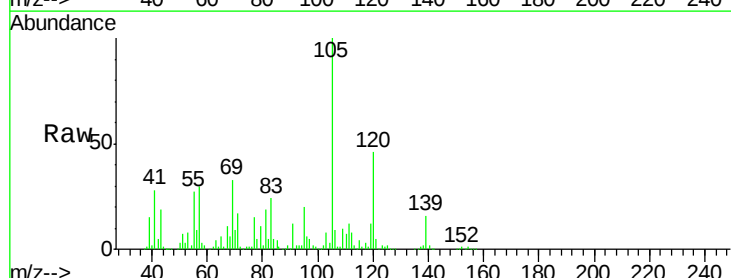
RT: 11.16 min Scan# 3287

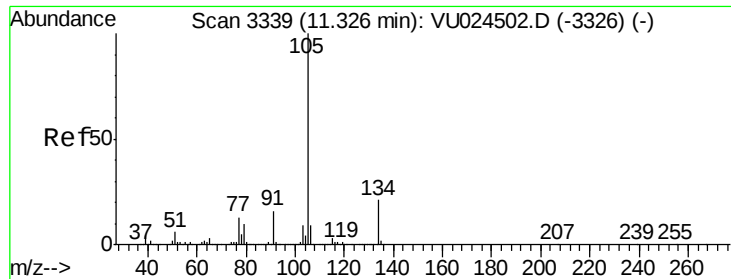
Delta R.T. 0.01 min

Lab File: VU025018.D

Acq: 28 Jun 2018 14:16

Tgt Ion:	105	Resp:	1254598
Ion Ratio	Lower	Upper	
105	100		
120	45.5	22.6	67.8





#85

sec-Butylbenzene

Concen: 45.48 ug/l

RT: 11.34 min Scan# 3342

Delta R.T. 0.01 min

Lab File: VU025018.D

Acq: 28 Jun 2018 14:16

Instrument :

MSVOA_U

ClientSampleId :

WP021SB481-9-11-180621ME

Tot Ion:105 Resp: 977345

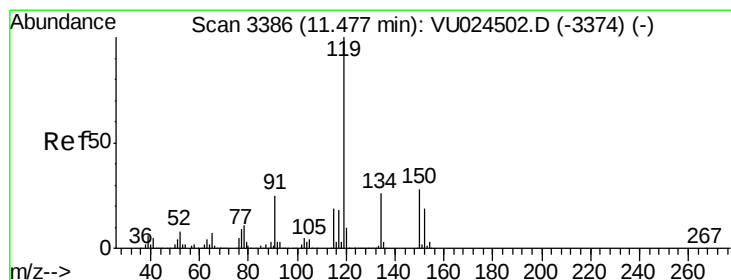
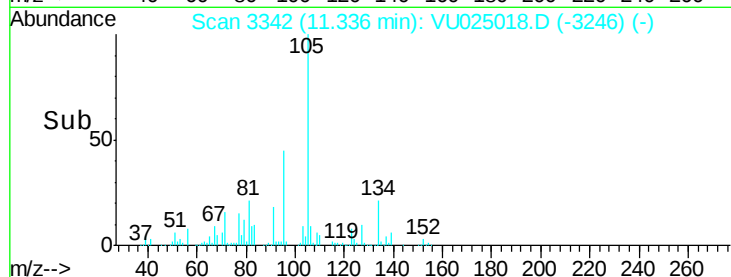
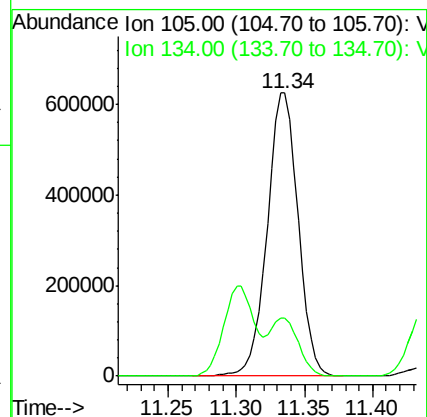
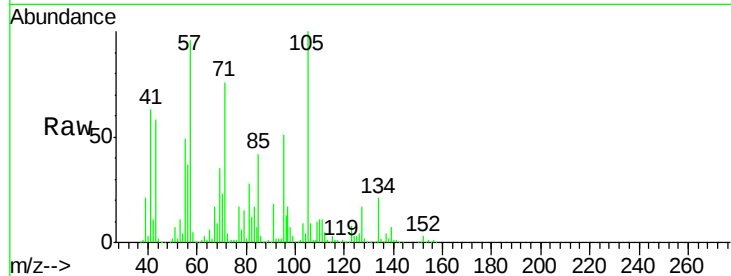
Ion Ratio Lower Upper

105 100

134 17.5 9.7 29.1

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#86

p-Isopropyltoluene

Concen: 23.24 ug/l

RT: 11.48 min Scan# 3388

Delta R.T. 0.01 min

Lab File: VU025018.D

Acq: 28 Jun 2018 14:16

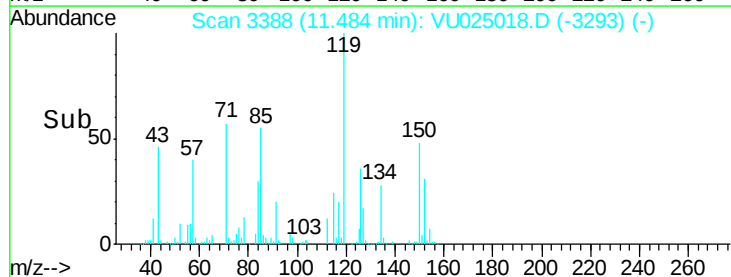
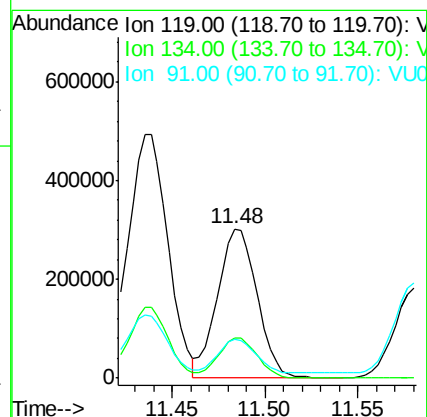
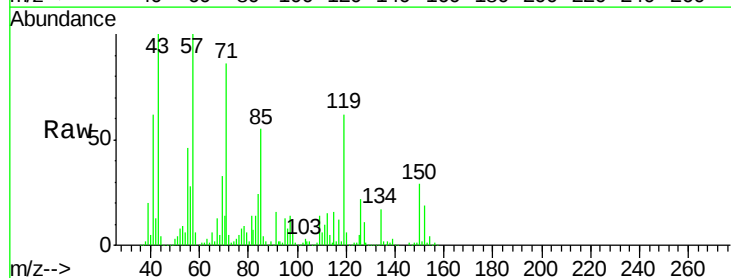
Tgt Ion:119 Resp: 447332

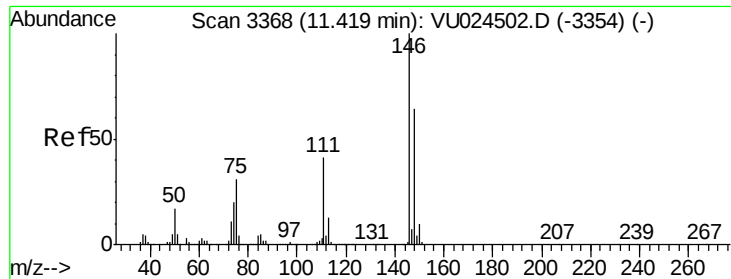
Ion Ratio Lower Upper

119 100

134 26.1 12.9 38.6

91 22.1 12.0 36.1





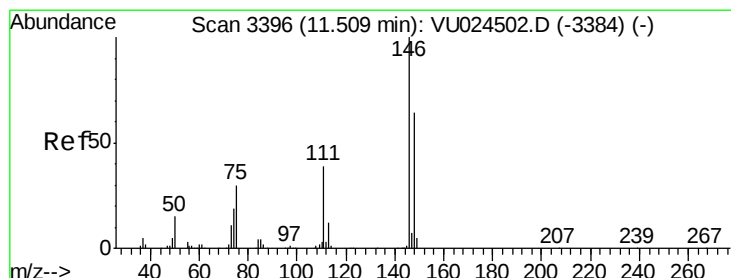
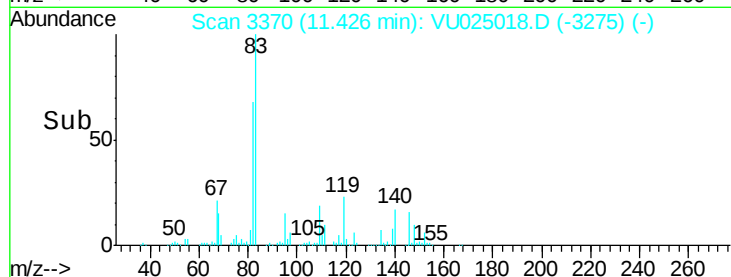
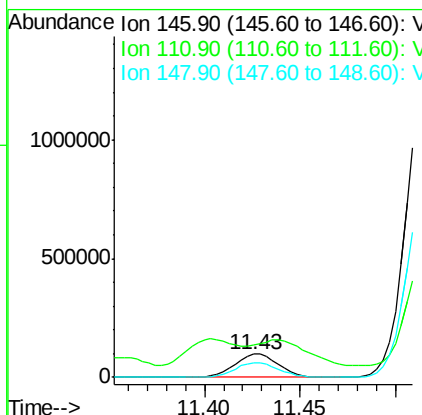
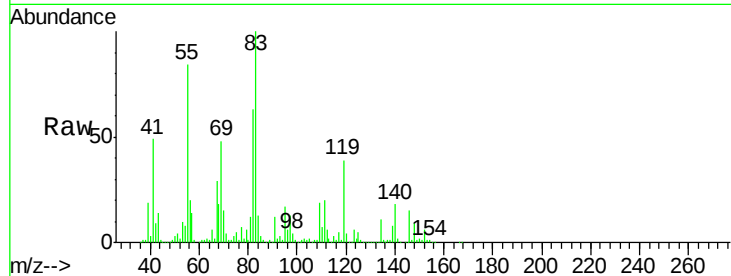
#87
 1,3-Dichlorobenzene
 Concen: 16.05 ug/l m
 RT: 11.43 min Scan# 3370
 Delta R.T. 0.01 min
 Lab File: VU025018.D
 Acq: 28 Jun 2018 14:16

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB481-9-11-180621ME

Tot Ion	Ratio	Lower	Upper
146	100		
111	614.2	20.0	60.0#
148	952.6	32.1	96.5#

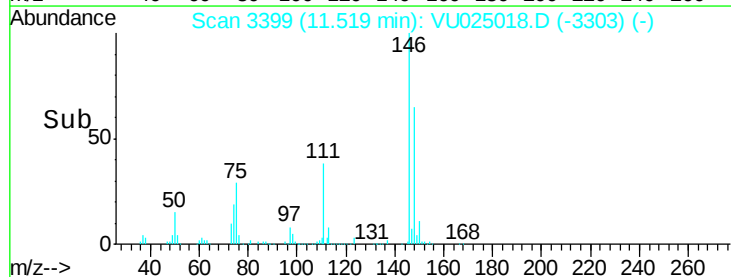
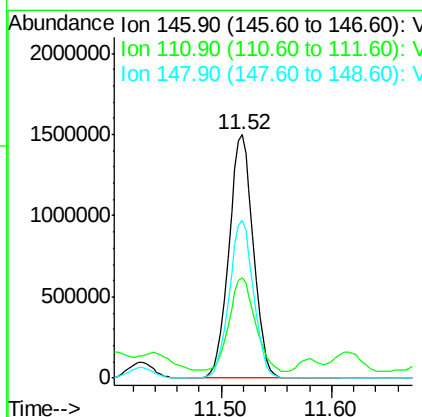
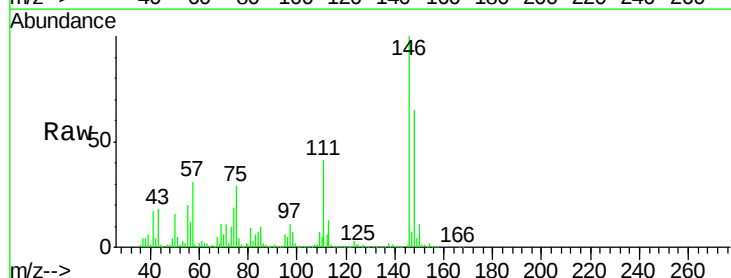
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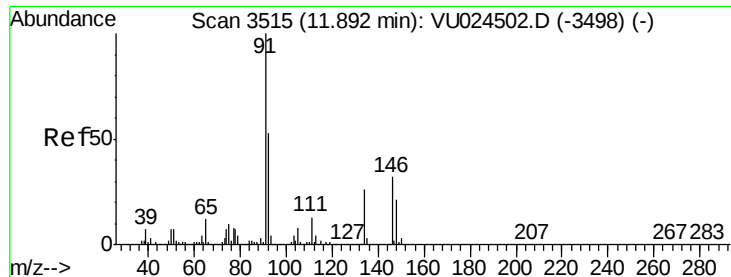
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#88
 1,4-Dichlorobenzene
 Concen: 236.09 ug/l
 RT: 11.52 min Scan# 3399
 Delta R.T. 0.01 min
 Lab File: VU025018.D
 Acq: 28 Jun 2018 14:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	19.5	58.5
148	64.3	32.4	97.0





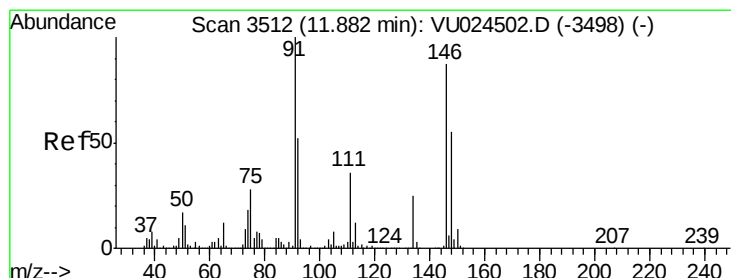
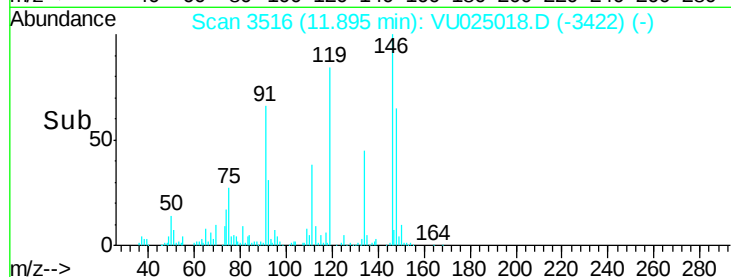
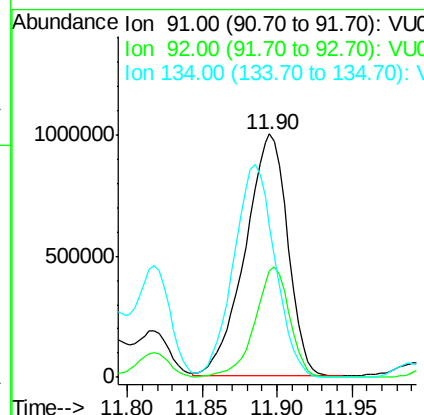
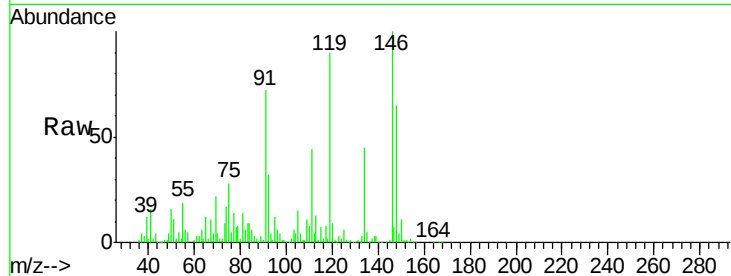
#89
n-Butylbenzene
Concen: 115.39 ug/l
RT: 11.90 min Scan# 3516
Delta R.T. 0.00 min
Lab File: VU025018.D
Acq: 28 Jun 2018 14:16

Instrument :
MSVOA_U
ClientSampleId :
WP021SB481-9-11-180621ME

Tot Ion: 91 Resp: 1971537
Ion Ratio Lower Upper
91 100
92 37.2 25.6 76.8
134 85.9 12.3 36.8#

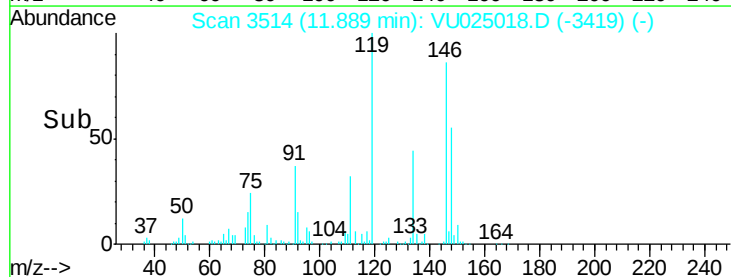
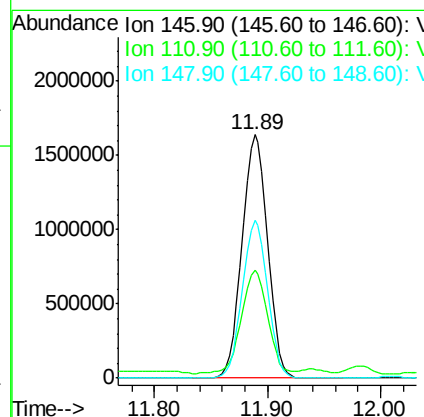
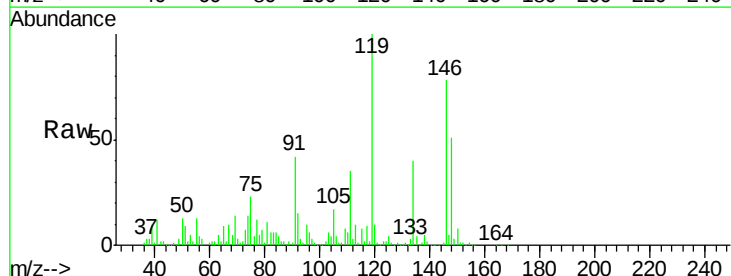
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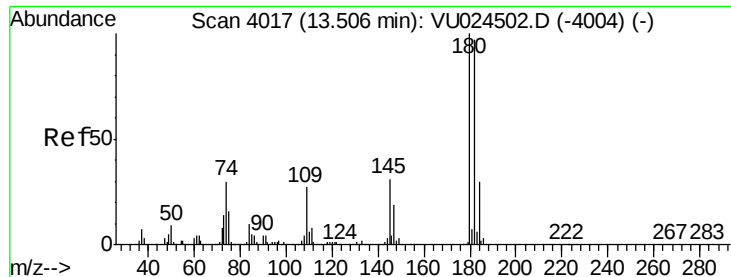
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#91
1,2-Dichlorobenzene
Concen: 267.65 ug/l
RT: 11.89 min Scan# 3514
Delta R.T. 0.01 min
Lab File: VU025018.D
Acq: 28 Jun 2018 14:16

Tgt Ion: 146 Resp: 2581710
Ion Ratio Lower Upper
146 100
111 43.4 20.5 61.6
148 64.2 31.9 95.7





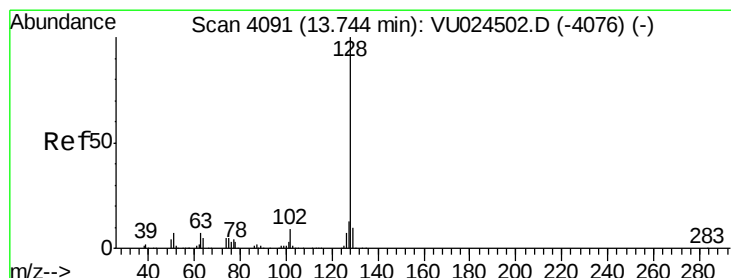
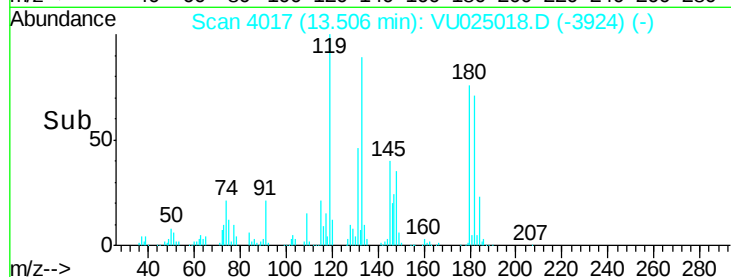
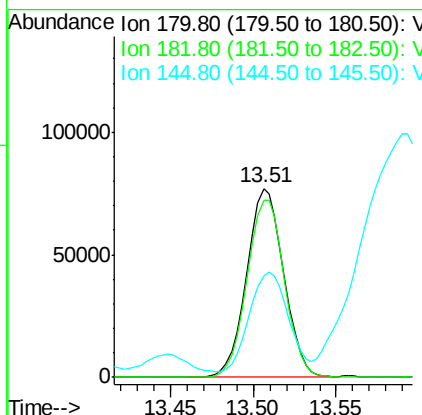
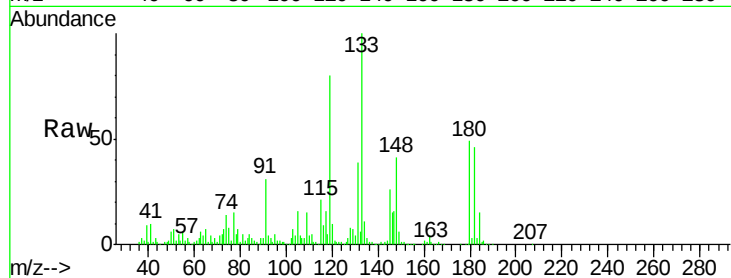
#93
 1,2,4-Trichlorobenzene
 Concen: 19.95 ug/l
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025018.D
 Acq: 28 Jun 2018 14:16

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB481-9-11-180621ME

Tot Ion	Ratio	Resp	Lower	Upper
180	100	118831		
182	96.0	48.0	144.2	
145	60.4	14.7	44.1#	

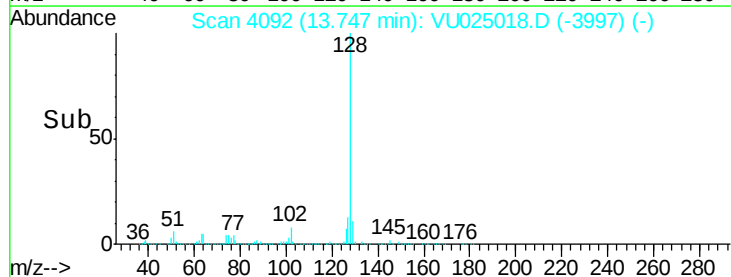
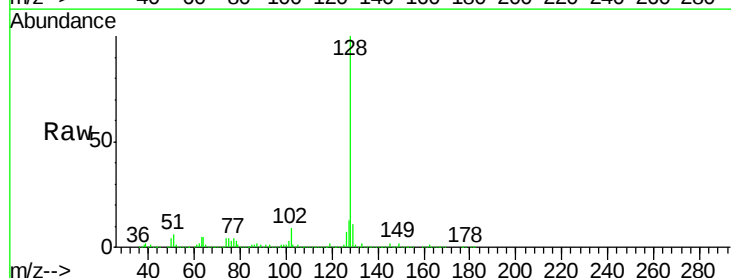
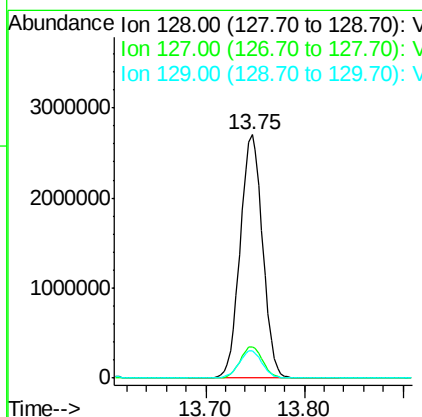
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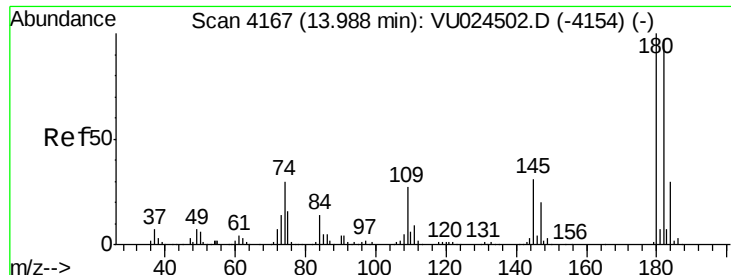
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#95
 Naphthalene
 Concen: 212.68 ug/l
 RT: 13.75 min Scan# 4092
 Delta R.T. 0.00 min
 Lab File: VU025018.D
 Acq: 28 Jun 2018 14:16

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	4237945		
127	13.0	10.6	16.0	
129	11.6	8.6	12.8	





#96
 1,2,3-Trichlorobenzene
 Concen: 4.01 ug/l
 RT: 13.99 min Scan# 4168
 Delta R.T. 0.00 min
 Lab File: VU025018.D
 Acq: 28 Jun 2018 14:16

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB481-9-11-180621ME

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.9	143.7
145	0.0	15.4	46.1

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